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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): **Hardial Singh GILL**

Serial No.: **09/928,254**

Filed: **August 10, 2001**

Title: **A BALUN AND A MIXER AND DOWN-  
CONVERTER INCORPORATING SAME**

Attorney Docket No.: **P/62406**

Group Art Unit:

Examiner:

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**FEB 04 2002**

**Technology Center 2000**

Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

This Information Disclosure Statement is submitted:

☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with a:  
☐ Statement under 37 CFR 1.97(e), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

☒ Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware.

Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

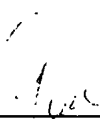
Respectfully submitted,

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: December 19, 2001

Typed Name: Alan ISRAEL

Signature: 

  
\_\_\_\_\_  
Alan Israel  
Attorney/Agent for Applicant(s)  
Reg. No. 27564

Date: December 19, 2001

Telephone No.: 212-697-3750

☐ O I P T E J C T  
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number

**09/928,254**

**Filing Date**

**August 10, 2001**

**First Named Inventor**

**Hardial GILL**

## Group Art Unit

Examiner Name

Attorney Docket Number

**P/62406**

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date  
Considered

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**Application Number**

09/928,254

Filing Date

**August 10, 2001**

**First Named Inventor**

**Hardial GILL**

## Group Art Unit

**Examiner Name**

Attorney Docket Number

**P/62406**

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

**Examine  
Initials\***

Cite  
No. 1

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

**T<sup>2</sup>**

Ryu Y I, et al., *A MONOLITHIC BROADBAND DOUBLY BALANCED EHF HBT STAR MIXER WITH NOVEL MICROSTRIP BALUNS*, IEEE MTT-S International Microwave Symposium Digest, U.S., New York, IEEE, May 16, 1995, pp. 119-122.

THREE BALUN DESIGNS FOR PUSH-PULL AMPLIFIERS, TRW, Application Note, 7 pages.

A MONOLITHIC OR HYBRID BROADBAND COMPENSATED BALUN, Anthony M. Pavio, et al., IEEE MTT-S Digest, 1990, pp. 483-486.

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Technology Center 2600

Examiner  
Signature

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	Considered
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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